Contents

19th FEBS Meeting
Rome
2–7 July 1989

Editorial

G. Semenza 1

FEBS – 25th Anniversary

G. Dirheimer 3

The Third Datta Lecture

The mechanism of proton translocation in respiration and photosynthesis (FEB 07111) *B.G. Malmström* 9

Full papers from some posters at the Rome FEBS Meeting

Interaction of rat α-fetoprotein and albumin with polyunsaturated and other fatty acids: determination of apparent association constants (FEB 07043) *A. Anel, M. Calvo, J. Naval, M. Iturralde, M.A. Alava, A. Piñeiro* 22
Characterization of γ-crystallins from eye lenses of shark: closer structural similarity to mammalian than other piscine γ-crystallins? (FEB 07092) *S.-H. Chiou* 25
Interaction of cytosol fractions containing activated glucocorticoid-receptor complexes from rat liver and thymus with heterologous nuclei: effects on transcription (FEB 07117) *T.J. Tzavaras, N.H. Tsawdaroglou, C.E. Sekeris* 30
Independence of triacylglycerol-containing compartments in cultured fibroblasts from Wolman disease and multisystemic lipid storage myopathy (FEB 07125) *R. Salvayre, A. Nègre, J. Radom, L. Douste-Blazy* 35
Maturation-dependent changes of the rabbit reticulocyte energy metabolism (FEB 07144) *M.M. Kostić, S.M. Rapoport* 40
Conservation of local electric fields in the evolution of Cu,Zn superoxide dismutase (FEB 07137) *A. Desideri, M. Falconi, V. Parisi, G. Rotilio* 45
Substitution of arginine for lysine 134 alters electrostatic parameters of the active site in shark Cu,Zn superoxide dismutase (FEB 07155) *L. Calabrese, F. Polticelli, P. O'Neill, A. Galtieri, D. Barra, E. Schininà, F. Bossa* 49
The amino acid sequence of the α- and β-chains of the two hemoglobins of the Antarctic fish *Notothenia coriiceps neglecta* (FEB 07148) *R. D'Avino, C. Caruso, M.E. Schininà, B. Rutigliano, M. Romano, L. Camardella, F. Bossa, D. Barra, G. di Prisco* 53
N-terminal region of *Proteus mirabilis* glutathione transferase is not homologous to mammalian and plant glutathione transferases (FEB 07151) *C. Di Ilio, A. Aceto, R. Piccolomini, N. Allocati, A.M. Caccuri, D. Barra, G. Federici* 57
Mitochondrial F_0F_1 H^+-ATP synthase: Characterization of F_0 components involved in H^+ translocation (FEB 07204) *F. Guerrieri, G. Capozza, J. Houštěk, F. Zanotti, G. Colaianni, E. Jirillo, S. Papa* 60
HPLC study on the 'history' dependence of gramicidin A conformation in phospholipid model membranes (FEB 07235) *M.C. Bañó, L. Braco, C. Abad* 67
Sheep brain glutathione reductase: purification and general properties (FEB 07243) *N.L. Acan, E.F. Tezcan* 72
Identification of 1,4-thiomorpholine-3-carboxylic acid (TMA) in normal human urine (FEB 07285) *R.M. Matarese, S.P. Solinas, G. Montefoschi, G. Ricci, D. Cavallini* 75

Review Letter

Structures and functions associated with the group of mammalian lectins containing collagen-like sequences (FEB 07262) *S. Thiel, K.B.M. Reid* 78

Discussion Letter

A new family of growth factor-like peptides: 'Trefoil' disulphide loop structures as a common feature in breast cancer associated peptide (pS2), pancreatic spasmolytic polypeptide (PSP), and frog skin peptides (spasmolysins) (FEB 07237) *L. Thim* 85

Research Letters

Structure of the α_1 subunit of horse Na,K-ATPase gene (FEB 07288) *I. Kano, F. Nagai, K. Satoh, K. Ushiyama, T. Nakao, K. Kano* 91
Cloning and sequencing of the human nucleolin cDNA (FEB 07280) *M. Srivastava, P.J. Fleming, H.B. Pollard, A.L. Burns* 99

Annual Review Letter

Bacterial Na^+ energetics (FEB 07290) *V.P. Skulachev* 106

Book Reviews and Booklist no. 89 115
Notes to Authors 124

FEBS NEWS

1st Announcement, 20th FEBS Meeting 126
Announcement, Biochemical Analysis Prize 1990 127

Hypothesis

Selection of the 3'-splice site in group I introns (FEB 07289) *J.M. Burke* 129

Research Letters

Modulation of DNA methyltransferase during the life cycle of a mealybug *Planococcus lilacinus* (FEB 07249) *C. Devajyothi, V. Brahmachari* 134
3'-Fluoro-3'-deoxyribonucleoside 5'-triphosphates: synthesis and use as terminators of RNA biosynthesis (FEB 07251) *I.A. Mikhailopulo, T.I. Pricota, N.E. Poopeiko, G.G. Sivets, E.I. Kvasyuk, T.V. Sviryaeva, L.P. Savochkina, R.S. Beabealashvilli* 139

Some evidence of the enzymatic conversion of bovine suppressor phosphoseryl-tRNA to selenocysteyl-tRNA (FEB 07248) *T. Mizutani* 142
Mechanism of inhibition of eukaryotic translational initiation by the trinucleotide ApUpG (FEB 07250) *T. Wagner, P.B. Sigler, M. Gross* 147
Cloning and expression of a functional fucose-specific lectin from an orange peel mushroom, *Aleuria aurantia* (FEB 07254) *F. Fukumori, N. Takeuchi, T. Hagiwara, K. Ito, N. Kochibe, A. Kobata, Y. Nagata* 153
Lectin-like proteins accumulate as fragmentation products in bean seed protein bodies (FEB 07253) *A. Ceriotti, A. Vitale, R. Bollini* 157
Production and purification of a recombinant human 14 kDa β-galactoside-binding lectin (FEB 07232) *J. Hirabayashi, H. Ayaki, G.-I. Soma, K.-I. Kasai* 161
Identification of a procarboxypeptidase A-truncated protease E binary complex in human pancreatic juice (FEB 07247) *M. Moulard, B. Kerfelec, B. Mallet, C. Chapus* 166
Structural analyses of the polymorphic area in type II collagen gene (FEB 07252) *M. Vikkula, L. Peltonen* 171
The primary structure of *Pseudomonas* cytochrome *c* peroxidase (FEB 07245) *M. Rönnberg, N. Kalkkinen, N. Ellfolk* 175
The surface potential on the purple membrane measured using a modified bacteriorhodopsin chromophore as the spectroscopic probe (FEB 07240) *B. Ehrenberg, T.G. Ebrey, N. Friedman, M. Sheves* 179
The cooperativity phenomena in a pigment-protein complex of light-harvesting antenna revealed by picosecond absorbance difference spectroscopy (FEB 07166) *R.V. Danielius, A.P. Mineyev, A.P. Razjivin* 183
Elucidation of multiple forms of nephrocalcin by ^{31}P-NMR spectrometer (FEB 07244) *Y. Nakagawa, T. Otsuki, F.L. Coe* 187
Butylmalonate is a transition state analogue for aminocylase I (FEB 07242) *K.-H. Röhm* 191
Extracellular Na^+ removal enhances granule secretion in platelets – evidence that Na^+/H^+ exchange is inhibitory to secretion induced by some agonists (FEB 07238) *S. Krishnamurthi, W.A. Morgan, V.V. Kakkar* 195
Diacylglycerol breakdown in plasma membrane of rat intestinal epithelial cells: Effect of *E. coli* heat-stable toxin (FEB 07198) *N.D. Banik, U. Ganguly* 201
An in vitro demonstration of peroxisome proliferation and increase in peroxisomal β-oxidation system mRNAs in cultured rat hepatocytes treated with ciprofibrate (FEB 07256) *S. Thangada, K. Alvares, M. Mangino, M.I. Usman, M. Sambasiva Rao, J.K. Reddy* 205
Potentiation by adrenaline of thrombin-induced elevation of pH_i is not essential for synergistic activation of human platelets (FEB 07246) *V.M. Steen, C.A. Cook, O.-B. Tysnes, H. Holmsen* 211
In vivo release of CCK-8 from the dorsal horn of the rat: inhibition by DAGOL (FEB 07255) *R.E. Rodríguez, M.P. Sacristán* 215
N-Nitroso-β-lactams as β-lactamase inhibitor (FEB 07260) *K. Tanizawa, K. Santoh, Y. Kanaoka* 218
Different selectivities of oxidants during oxidation of methionine residues in the α-1-proteinase inhibitor (FEB 07276) *K.L. Maier, E. Matejkova, H. Hinze, L. Leuschel, H. Weber, I. Beck-Speier* 221
Enzyme inhibition by dipeptides containing 2,3-methanophenylalanine, a sterically constrained amino acid (FEB 07258) *T. Ogawa, H. Yoshitomi, H. Kodama, M. Waki, C.H. Stammer, Y. Shimohigashi* 227
Isolation and structure of corazonin, a cardioactive peptide from the American cockroach (FEB 07259) *J.A. Veenstra* 231
Brain natriuretic peptide-like immunoreactivity is present in human plasma (FEB 07267) *K. Togashi, Y. Hirata, K. Ando, Y. Takei, M. Kawakami, F. Marumo* 235
Fatty acid acylated antibodies against virus suppress its reproduction in cells (FEB 07272) *A.V. Kabanov, A.V. Ovcharenko, N.S. Melik-Hubarov, A.I. Bannikov, V.Yu. Alakhov, V.I. Kiselev, P.G. Sveshnikov, O.I. Kiselev, A.V. Levashov, E.S. Severin* 238
Syncytia formation in HIV-1 infected cells is associated with an increase in cellular oleic acid (FEB 07275) *K. Apostolov, W. Barker, S.A. Galpin, N.A. Habib, C.B. Wood, D. Kinchington* 241
Transport of CMP-*N*-glycoloylneuraminic acid into mouse liver Golgi vesicles (FEB 07265) *A. Lepers, L. Shaw, R. Cacan, R. Schauer, J. Montreuil, A. Verbert* 245
Heterogeneous distribution of nuclear triiodothyronine receptors in liver and preadipose cells as evidenced by their reactivity to antibodies against different protein products of *erb* A oncogenes (FEB 07277) *J. Torresani, J. Ghysdael, J. Bismuth, M. Teboul, O. Ghiringhelli, J. Savary* 251
Histamine and serotonin inhibit induction of ornithine decarboxylase by ornithine in perifused Ehrlich ascites tumour cells (FEB 07271) *J.M. Matés, F.M. Sánchez-Jiménez, M. García-Caballero, I. Núñez de Castro* 257
Protein phosphorylation is required for diazoxide to open ATP-sensitive potassium channels in insulin (RINm5F) secreting cells (FEB 07266) *M.J. Dunne* 262
Kinetic β-deuterium isotope effects suggest a covalent mechanism for the protein folding enzyme peptidylprolyl *cis/trans*-isomerase (FEB 07274) *G. Fischer, E. Berger, H. Bang* 267
Electron transfer reactions in photosystem I following vitamin K_1 depletion by ultraviolet irradiation (FEB 07269) *J. Biggins, N.A. Tanguay, H.A. Frank* 271
High resolution emission spectra of one second delayed fluorescence from chloroplasts (FEB 07268) *É. Hideg, R.Q. Scott, H. Inaba* 275
Identification of the plastocyanin binding subunit of photosystem I (FEB 07257) *M. Hippler, R. Ratajczak, W. Haehnel* 280
Identification of a wheat germ agglutinin-sensitive ATPase in yeast nuclei (FEB 07270) *E. Tsuchiya, K. Hiraga, S. Fukui, T. Miyakawa* 285
ATP-dependent peptide release from mitochondria of reticulocytes (FEB 07263) *W. Dubiel, I. Drung, M. Müller, S.M. Rapoport* 289
Dextran protection of erythrocytes from low-pH-induced hemolysis (FEB 07278) *A. Cudd, T. Arvinte, B. Schulz, C. Nicolau* 293
Core histone acetylation during lymphocyte activation (FEB 07273) *A. Profumo, F. Querzola, G. Vidali* 297
Collagenase gene expression in fibroblasts is regulated by a three-dimensional contact with collagen (FEB 07264) *C. Mauch, B. Adelmann-Grill, A. Hatamochi, T. Krieg* 301

Identification of thiol groups and a disulfide crosslink site in bovine myelin proteolipid protein (FEB 07279) *S.-Yu. Shaw, R.A. Laursen, M.B. Lees* 306
Processing of transcripts of a dimeric tRNA gene in yeast uses the nuclease responsible for maturation of the 3' termini upon 5 S and 37 S precursor rRNAs (FEB 07300) *P.W. Piper, K.B. Stråby* 311
Localisation of the binding site for the initiating substrate on the RNA polymerase from *Sulfolobus acidocaldarius* (FEB 07299) *M.A. Grachev, A.A. Mustaev, E.F. Zaychikov, A.J. Lindner, G.R. Hartmann* 317
Sequence selective binding of ditrisarubicin B to DNA: comparison with daunomycin (FEB 07283) *K.R. Fox, S. Kunimoto* 323
The effect of the replacement of ADP with a photoaffinity ATP analogue, 2-azido-ADP, in F-actin on its function (FEB 07286) *H. Kuwayama, M. Miki, C.G. dos Remedios* 328
Murine interleukin-2 receptor subunits differentially detected with anti-interleukin-2 monoclonal antibodies (FEB 07281) *H. Takemoto* 331
Antibodies against an inter-domain segment of polypeptide chain inhibit active-site coupling in the pyruvate dehydrogenase multienzyme complex (FEB 07302) *S.E. Radford, R.N. Perham, S.J. Ullrich, E. Appella* 336
Receptor-independent metabolism of platelet-activating factor by myelogenous cells (FEB 07305) *J.T. O'Flaherty, M.C. Chabot, J. Redman, jr, D. Jacobson, R.L. Wykle* 341
Modulation by somatostatin of nerve-mediated activation of glycogenolysis in the perfused rat liver (FEB 07284) *K. Beckh, K. Ehlenz, R. Arnold* 345
Effects of iron-EDTA on uroporphyrinogen oxidation by liver microsomes (FEB 07293) *J.M. Jacobs, P.R. Sinclair, R.W. Lambrecht, J.F. Sinclair* 349
Transducin GTPase provides for rapid quenching of the cGMP cascade in rod outer segments (FEB 07282) *V.Yu. Arshavsky, M.P. Antoch, K.A. Lukjanov, P.P. Philippov* 353
Detection of a proteolytic activity in the micrococcal nuclease used for preparation of messenger-dependent reticulocyte lysates (FEB 07291) *O. Hemmer, G. Demangeat, C. Greif, C. Fritsch* 357
Protein kinase C is crucial in signal transduction during IFN-γ induction in endothelial cells (FEB 07292) *P. Mattila, P. Häyry, R. Renkonen* 362
Effect of persistent measles virus infection on protein kinase C activity and c-fos protooncogene expression in neuroblastoma cells (FEB 07298) *M. Wolfson, A. Katorza, S. Segal, B. Rager-Zisman* 367
Production of plasmids giving high expression of recombinant DNA-derived ovine growth hormone variants in *Escherichia coli* (FEB 07287) O.C. Wallis, M. Wallis 371
cDNA-directed expression of human thyroid peroxidase (FEB 07294) *S. Kimura, T. Kotani, S. Ohtaki, T. Aoyama* 377
A chicken homeo box gene with developmentally regulated expression (FEB 07297) *A. Fainsod, Y. Gruenbaum* 381
Characterization of cDNA clones encoding two putative isoforms of the α_1 subunit of the dihydropyridine-sensitive voltage-dependent calcium channel isolated from rat brain and rat aorta (FEB 07296) *W.J. Koch, A. Hui, G.E. Shull, P. Ellinor, A. Schwartz* 386
Subtilisin enzymes: a note on time-resolved fluorescence and circular dichroism properties (FEB 07304) *P.M. Bayley, J.-M. Janot, S.R. Martin* 389
In vivo measurement of spectroscopic and photochemical properties of intact leaves using the 'mirage effect' (FEB 07295) *M. Havaux, L. Lorrain, R.M. Leblanc* 395
Conformation of a T cell stimulating peptide in aqueous solution (FEB 07303) *J.P. Waltho, V.A. Feher, R.A. Lerner, P.E. Wright* 400
Conformational behavior of fragments of adrenocorticotropin and their antisense peptides determined by NMR spectroscopy and CD spectropolarimetry (FEB 07317) *E.S. Najem, A. Corigliano-Murphy, J.A. Ferretti* 405
Complete primary structure of a calcium-dependent serine proteinase capable of degrading extracellular matrix proteins (FEB 07322) *H. Kinoshita, H. Sakiyama, K. Tokunaga, S. Imajoh-Ohmi, Y. Hamada, K. Isono, S. Sakiyama* 411
A small basic ribosomal protein in *Sulfolobus solfataricus* equivalent to L46 in yeast: structure of the protein and its gene (FEB 07306) *C. Ramirez, K.A. Louie, A.T. Matheson* 416
Organization of the thyroid hormone receptor in the chromatin of C6 glial cells: evidence that changes in receptor levels are not associated with changes in receptor distribution (FEB 07319) *J. Ortiz-Caro, B. Yusta, A. Pascual, A. Aranda* 419
Functional reconstitution of rat ovarian LH/hCG receptor into proteoliposomes (FEB 07307) *J. Kolena* 425
Regulation of colominic acid biosynthesis by temperature: role of cytidine 5'-monophosphate *N*-acetylneuraminic acid synthetase (FEB 07314) *C. González-Clemente, J.M. Luengo, L.B. Rodriguez-Aparicio, A. Reglero* 429
Charybdotoxin blocks both Ca-activated K channels and Ca-independent voltage-gated K channels in rat brain synaptosomes (FEB 07316) *M.J. Schneider, R.S. Rogowski, B.K. Krueger, M.P. Blaustein* 433
Binding of plasminogen to *Escherichia coli* adhesion proteins (FEB 07313) *J. Parkkinen, T.K. Korhonen* 437
New herbicide-binding site in the photosynthetic electron-transport chain: Competitive herbicide binding at the photosystem I phylloquinone-(vitamin K_1)-binding site (FEB 07308) *S. Itoh, M. Iwaki* 441
Conserved amino acids in F-helix of bacteriorhodopsin form part of a retinal binding pocket (FEB 07311) *K.J. Rothschild, M.S. Braiman, T. Mogi, L.J. Stern, H.G. Khorana* 448
Modulation of cytochrome oxidase kinetics by indirect antibody action (FEB 07309) *P. Nicholls, C.E. Cooper* 453
Spectral properties of stabilized D1/D2/cytochrome *b*-559 photosystem II reaction center complex: Effects of Triton X-100, the redox state of pheophytin, and β-carotene (FEB 07310) *V.L. Tetenkin, B.A. Gulyaev, M. Seibert, A.B. Rubin* 459
Effect of starvation and insulin in vivo on the activity of the pyruvate dehydrogenase complex in rat skeletal muscles (FEB 07315) *G.S. Denyer, D. Lam, G.J. Cooney, I.D. Caterson* 464
The 18 kDa cytosolic acid phosphatase from bovine liver has phosphotyrosine phosphatase activity on the autophosphorylated epidermal growth factor receptor

(FEB 07318) *G. Ramponi, G. Manao, G. Camici, G. Cappugi, M. Ruggiero, D.P. Bottaro* 469
Transformation of mouse mammary epithelial cells with the Ha-*ras* but not with the *neu* oncogene results in a gene dosage-dependent increase in transforming growth factor-α production (FEB 07351) *F. Ciardiello, N. Hynes, N. Kim, E.M. Valverius, M.E. Lippman, D.S. Salomon* 474
Immunological properties of notexin, a potent presynaptic and myotoxic component from venom of the Australian tiger snake *Notechis scutatus scutatus* (FEB 07219) *P. Mollier, S. Chwetzoff, P. Frachon, A. Ménez* 479
Bovine lens 23, 21 and 19 kDa intrinsic membrane proteins have an identical amino-terminal amino acid sequence (FEB 07326) *G.N. Rao, K.A. Gutekunst, R.L. Church* 483
Digital fluorescence imaging of fusion of influenza virus with erythrocytes (FEB 07334) *G.N. Georgiou, I.E.G. Morrison, R.J. Cherry* 487
Calpain proteolysis of free and bound forms of calponin, a troponin T-like protein in smooth muscle (FEB 07336) *S. Tsunekawa, K. Takahashi, M. Abe, K. Hiwada, K. Ozawa, T. Murachi* 493
α- and β-tubulin mRNAs of *Trypanosoma cruzi* originate from a single multicistronic transcript (FEB 07338) *C.M.A. Soares, E.F. de Carvalho, T.P. Urményi, J.F.O. Carvalho, F.T. de Castro, E. Rondinelli* 497
Characterization of excitation energy trapping in photosynthetic purple bacteria at 77 K (FEB 07312) *H. Bergström, R. van Grondelle, V. Sundström* 503
Evidence for the existence of a cardiac specific isoform of the α_1 subunit of the voltage dependent calcium channel (FEB 07320) *D.F. Slish, D.B. Engle, G. Varadi, I. Lotan, D. Singer, N. Dascal, A. Schwartz* 509
Developmental regulation of expression of the α_1 and α_2 subunits mRNAs of the voltage-dependent calcium channel in a differentiating myogenic cell line (FEB 07321) *G. Varadi, J. Orlowski, A. Schwartz* 515
Charybdotoxin blocks dendrotoxin-sensitive voltage-activated K^+ channels (FEB 07323) *H. Schweitz, C.E. Stansfeld, J.-N. Bidard, L. Fagni, P. Maes, M. Lazdunski* 519
Translational inhibition by eIF-2-phospholipid complex in mammalian cell-free systems (FEB 07324) *F. Pelaez, C. de Haro* 523
Characterization of DNA rearrangements of N-myc gene amplification in three neuroblastoma cell lines by pulsed-field gel electrophoresis (FEB 07325) *H. Kato, K. Okamura, Y. Kurosawa, T. Kishikawa, K. Hashimoto* 529
CD3/T-cell receptor coupling to a pertussis and cholera toxin-insensitive G-protein (FEB 07327) *A. Kvanta, C. Nordstedt, I. van der Ploeg, M. Jondal, B.B. Fredholm* 536
Synergistic enhancement of type I and III collagen production in cultured fibroblasts by transforming growth factor-β and ascorbate (FEB 07328) *W.D. Appling, W.R. O'Brien, D.A. Johnston, M. Duvic* 541
Immunodetection of Na,K-ATPase α3-isoform in renal and nerve tissues (FEB 07329) *E.A. Arystarkhova, O.E. Lakhtina, N.N. Modyanov* 545
Synthesis and assembly of native myosin on muscle polyribosomes (FEB 07330) *J. Gagnon, T.T. Kurowski, R. Zak* 549
Lipid dependence of peptide-membrane interactions: Bilayer affinity and aggregation of the peptide alamethicin (FEB 07331) *S. Stankowski, G. Schwarz* 556
Import of a mutant mitochondrial precursor fails to respond to stimulation by a cytosolic factor (FEB 07332) *S.K. Randall, G.C. Shore* 561
Cleavage of the O antigen 4,5,12 of *Salmonella typhimurium* by hydrofluoric acid (FEB 07333) *I.M. Helander, V. Kitunen* 565
Purification and reconstitution of potassium channel proteins from squid axon membranes (FEB 07335) *G. Prestipino, H.H. Valdivia, A. Liévano, A. Darszon, A.N. Ramírez, L.D. Possani* 570
A cDNA clone encoding the precursor for a 10.2 kDa photosystem I polypeptide of barley (FEB 07342) *J.S. Okkels, H.V. Scheller, L.B. Jepsen, B.L. Møller* 575
Disposition of water in chloroplast coupling factor 1 (CF_1): A neutron scattering analysis (FEB 07343) *K. Ibel, S. Engelbrecht, R. Wagner, C.S. Andreo, W. Junge* 580
Isolation of cDNA clones encoding the human Sm B/B′ auto-immune antigen and specifically reacting with human anti-Sm auto-immune sera (FEB 07346) *N.G. Sharpe, D.G. Williams, D.N. Howarth, B. Coles, D.S. Latchman* 585
Patterns of nucleotide substitutions and implications for the immunological diversity of human immunodeficiency virus (FEB 07344) *N. Shimizu, T. Okamoto, E.N. Moriyama, Y. Takeuchi, T. Gojobori, H. Hoshino* 591
An improved procedure for identifying and quantitating protein phosphatases in mammalian tissues (FEB 07347) *P. Cohen, S. Klumpp, D.L. Schelling* 596
Remarkable similarities between yeast and mammalian protein phosphatases (FEB 07348) *P. Cohen, D.L. Schelling, M.J.R. Stark* 601
Interleukin-6 (IL-6) functions as an in vitro autocrine growth factor in renal cell carcinomas (FEB 07349) *S. Miki, M. Iwano, Y. Miki, M. Yamamoto, B. Tang, K. Yokokawa, T. Sonoda, T. Hirano, T. Kishimoto* 607
Retinoic acid enhances VIP receptor expression and responsiveness in human neuroblastoma cell, SH-SY5Y (FEB 07352) *J.A. Waschek, J.-M. Muller, D.-S. Duan, W. Sadée* 611
Specific binding of okadaic acid, a new tumor promoter in mouse skin (FEB 07354) *M. Suganuma, M. Suttajit, H. Suguri, M. Ojika, K. Yamada, H. Fujiki* 615
Basic fibroblast growth factor enhances the capacity of bone marrow cells to form bone-like nodules in vitro (FEB 07353) *D. Noff, S. Pitaru, N. Savion* 619
Regulation of tetrahydrobiopterin synthesis during lectin stimulation of human peripheral blood lymphocytes (FEB 07355) *F. Kerler, I. Ziegler, B. Schwarzkopf, A. Bacher* 622
Quantitative immunochemical evidence for identical topography of subunits CF_0II and CF_0I within the photosynthetic ATP-synthase of spinach chloroplasts (FEB 07339) *J. Otto, R.J. Berzborn* 625
Nucleoside diphosphate kinase from human erythrocytes: purification, molecular mass and subunit structure (FEB 07341) *E. Presecan, A. Vonica, I. Lascu* 629
Characterization of Mg^{2+} efflux from human, rat and chicken erythrocytes (FEB 07340) *T. Günther, J. Vormann* 633
Author Index 639
Table of Contents 647
Notes to Authors 651